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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/696,277	10/29/2003		Todd Hays	074872.0105	6495
31625	7590	12/09/2005		EXAMINER	
BAKER BO			PECHHOLD, ALEXANDRA K		
98 SAN JACINTO BLVD., SUITE 1500				ART UNIT	PAPER NUMBER
AUSTIN, T	X 78701-	4039	3671		

DATE MAILED: 12/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner		Application No.	Applicant(s)					
Alexandra K. Pechhold 3571	Office Assistant Commencer	10/696,277	HAYS ET AL.					
The MALLING DATE of this communication appears on the cover sheet with the correspondence address - Period for Repiy A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Educations of time may be evaluate under the provided of 30 FR 113(6). In ne event, however, may a reply be timely filled she that SK (5) MONTHS from the malling date of this communication. It is a she to the communication of 30 FR 113(6). In ne event, however, may a reply be timely filled and the she that the she making date of this communication. Follows for good the provided of the communication. Follows for good the provided of the communication of the communication. Follows for good the provided of the communication, even if timely filled, may reduce any seemed point time alignature. See 7 CPR 1.70(6). Status 1) □ Responsive to communication(s) filled on 26 September 2005. 2a) ☑ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 6b) ☑ Claim(s) is/are allowed. 6c) ☑ Claim(s) is/are all	Office Action Summary	Examiner	Art Unit					
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Art Unit: 3671

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 6, 8, 9, 18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dillingham (US 6,012,870) in view of Birtchet (Re 36,981).

Regarding claim 1, Dillingham discloses a pavement repair system comprising:

- a vehicle, disclosed in column 3, lines 2-6,
- a hopper on the vehicle, seen as mixing chamber (21),
- at least one flameless heating element, seen as electric immersion heater
 (59) (Col 4, lines 8-9), the heating element operable to maintain aggregate
 material in the hopper within a selected temperature range; and
- an on board generator disposed on the vehicle, seen as the 6000 watt on board generator that supplies electricity to power heater (59) (Col 4, lines 10-12), powered by the vehicle and operable to provide power to the at least one flameless heating element during vehicle operation.

Dillingham fails to disclose the system as flameless, and the hopper having no flame-based heat source associated therewith. But Dillingham does disclose that the either both the retort tubes and the electric heater can be used or one or the other (Col

4, lines 15-19). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Dillingham to be flameless so that the hopper has no flame-based heat source associated therewith, since Dillingham provides the support for being able to solely use the electric heater, as opposed to requiring both types of heating elements (Col 4, lines 15-19), and therefore the system can still function as desired with just the use of the electric heater.

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Dillingham also fails to disclose aggregate materials, because Dillingham discloses that the new materials which are preferred for use in the method do not generally require mixing stone aggregate with an asphaltic binder in the mixing chamber (Col 2, lines 39-41). Yet it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Dillingham so that the heating element is operable to maintain aggregate material, since the claim language as written merely requires the heating element to be capable of maintaining aggregate in the hopper within a selected temperature, which the heating element of Dillingham is entirely capable of doing, and furthermore, Dillingham states in column 2, lines 39-41 that aggregate is not generally required, which leaves the possibility that it may be used even though it is not necessary.

Dillingham also fails to disclose the on-board generator as being hydraulically driven. Birtchet teaches a paving machine (12) utilizing an electric generator (44), with each generator mounted on the paving machine and powered by connecting an existing oil supply from the paver to a hydraulic motor, which then turns the generator (AC or DC generator) (Col 4, lines 27-42). It would have been obvious to one having ordinary skill

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in the art at the time the invention was made to modify the on-board generator of Dillingham to be hydraulically driven as taught by Birtchet, since Birtchet teaches how an on-board generator can be powered by an existing oil supply from the paver via the motor in column 4, lines 27-42, thereby making use the supply of oil already on hand as part of the paving machine.

Regarding claim 2, Dillingham discloses an electric heater (59).

Regarding claim 3, Dillingham discloses that heater (59) is an electric immersion heater in column 4, lines 8-9.

Regarding claim 8, Dillingham discloses commercially available temperature gages (82, 84 in Fig. 7) used to constantly monitor the temperature of the heat chamber and mixer chamber (Col 4, lines 12-14).

Regarding claim 9, the mixing chamber (21) is an enclosed cylinder, which can be viewed as an air jacket.

Regarding claim 18, Dillingham discloses the limitations of the claimed invention as discussed in regards to claims 1 and 9 above.

Dillingham fails to disclose the system as having no flame-based heat source associated

therewith. But Dillingham does disclose that the either both the retort tubes and the electric heater can be used or one or the other (Col 4, lines 15-19). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Dillingham to be flameless so that the hopper has no flame-based heat source associated therewith, since Dillingham provides the support

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for being able to solely use the electric heater, as opposed to requiring both types of heating elements (Col 4, lines 15-19), and therefore the system can still function as desired with just the use of the electric heater.

Dillingham also fails to disclose aggregate materials, because Dillingham discloses that the new materials which are preferred for use in the method do not generally require mixing stone aggregate with an asphaltic binder in the mixing chamber (Col 2, lines 39-41). Yet it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Dillingham so that the heating element is operable to maintain aggregate material, since the claim language as written merely requires the heating element to be capable of maintaining aggregate in the hopper within a selected temperature, which the heating element of Dillingham is entirely capable of doing, and furthermore, Dillingham states in column 2, lines 39-41 that aggregate is not generally required, which leaves the possibility that it may be used even though it is not necessary.

Dillingham also fails to disclose the on-board generator as being hydraulically driven. Birtchet teaches a paving machine (12) utilizing an electric generator (44), with each generator mounted on the paving machine and powered by connecting an existing oil supply from the paver to a hydraulic motor, which then turns the generator (AC or DC generator) (Col 4, lines 27-42). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the on-board generator of Dillingham to be hydraulically driven as taught by Birtchet, since Birtchet teaches how an on-board generator can be powered by an existing oil supply from the paver via the

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motor in column 4, lines 27-42, thereby making use the supply of oil already on hand as part of the paving machine.

Regarding claims 6 and 20, Dillingham fails to disclose the maintaining the aggregate materials within the hopper between 250-350 or 275-300 degrees Fahrenheit. But Dillingham does disclose that commercially available temperature gages (82, 84 in Fig. 7) are used to constantly monitor the temperature of the heat chamber and mixer chamber (Col 4, lines 12-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the temperature of the mixing chamber in Dillingham so that materials are maintained between 250-350 or 275-300 degrees Fahrenheit, since Dillingham discloses in column 4, lines 12-15 that commercially available temperature gages are used to constantly monitor the temperature of the heat chamber and mixer chamber, and furthermore, asphalt is heated to a desired temperature based on the application, materials, etc.

3. Claims 4, 5, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dillingham (US 6,012,870) and Birtchet (Re 36,981) as applied to claim 1, and further in view of Dillingham (US 5,988,935).

Regarding claim 4, Dillingham '870 fails to disclose two heating elements.

Dillingham '870 just discloses the one heating element (59). Dillingham '935 teaches two electric heating elements (25, 27) seen in Fig. 3 as disposed within an air jacket proximate the hopper above. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the single electric heating element of Dillingham '870 to comprise two electric heating elements disposed within an air

jacket proximate the hopper as taught by Dillingham '935, since Dillingham '935 states in column 6 lines 24-33 that the hopper compartment can be heated more economically with a dry radiant heat source, and thereby having two such heat sources improves the efficiency and economy of the heating process.

Regarding claim 5, Dillingham discloses a 54.75 kw heater in column 4, line 9.

Regarding claim 7, Dillingham '870 fails to disclose a first and second heating element, and maintaining the aggregate materials temperature between 275-300 degrees Fahrenheit. But Dillingham '870 does disclose that commercially available temperature gages (82, 84 in Fig. 7) are used to constantly monitor the temperature of the heat chamber and mixer chamber (Col 4, lines 12-15). Dillingham '870 just discloses the one heating element (59). Dillingham '935 teaches two electric heating elements (25, 27) seen in Fig. 3 as disposed within an air jacket proximate the hopper above, one being adjacent to a first side of the hopper and the other adjacent a second side of the hopper in Fig. 3. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the single electric heating element of Dillingham '870 to comprise two electric heating elements disposed within an air jacket proximate the hopper as taught by Dillingham '935, since Dillingham '935 states in column 6 lines 24-33 that the hopper compartment can be heated more economically with a dry radiant heat source, and thereby having two such heat sources improves the efficiency and economy of the heating process. It would also have been obvious to one having ordinary skill in the art at the time the invention was made to modify the temperature of the mixing chamber in Dillingham '870 to be maintained so that the

materials are between 275-350 degrees Fahrenheit, since Dillingham discloses in column 4, lines 12-15 that commercially available temperature gages are used to constantly monitor the temperature of the heat chamber and mixer chamber, and furthermore, asphalt is heated to a desired temperature based on the application, materials, etc.

4. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dillingham (US 6,012,870) and Birtchet (Re 36,981) as applied to claim 1, and further in view of Kleiger (US 5,419,654).

Regarding claim 10, Dillingham fails to disclose alternate powering by an external power source. Kleiger teaches auxiliary means in the form of electrical heating elements inserted into opposing ends of a heating tube for coupling with external powers such as a 110 V AC source (Col 2, lines 15-18). It would also have been obvious to one having ordinary skill in the art at the time the invention was made to modify the heating element of Dillingham to alternately have an external power source as taught by Kleiger, since an external power source serves as a back-up source of power in the event the on-board generator fails.

Regarding claim 11, a power cord is well-known for supplying power.

5. Claims 13 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dillingham (US 6,012,870) and Birtchet (Re 36,981) in view of Kleiger (US 5,419,654).

Regarding claim 13, Dillingham discloses the hopper body, at least one flameless heating element, and on-board generator powered by a pavement repair vehicle as discussed in regards to claim 1 above.

Dillingham fails to disclose the system as flameless, and being for a vehicle with no flame-based heat source. But Dillingham does disclose that the either both the retort tubes and the electric heater can be used or one or the other (Col 4, lines 15-19). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Dillingham to be flameless so that the hopper has no flame-based heat source associated therewith, since Dillingham provides the support for being able to solely use the electric heater, as opposed to requiring both types of heating elements (Col 4, lines 15-19), and therefore the system can still function as desired with just the use of the electric heater.

Dillingham also fails to disclose aggregate materials, because Dillingham discloses that the new materials which are preferred for use in the method do not generally require mixing stone aggregate with an asphaltic binder in the mixing chamber (Col 2, lines 39-41). Yet it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Dillingham so that the heating element is operable to maintain aggregate material, since the claim language as written merely requires the heating element to be capable of maintaining aggregate in the hopper within a selected temperature, which the heating element of Dillingham is entirely capable of doing, and furthermore, Dillingham states in column 2, lines 39-41

that aggregate is not generally required, which leaves the possibility that it may be used even though it is not necessary.

Dillingham also fails to disclose the on-board generator as being hydraulically driven. Birtchet teaches a paving machine (12) utilizing an electric generator (44), with each generator mounted on the paving machine and powered by connecting an existing oil supply from the paver to a hydraulic motor, which then turns the generator (AC or DC generator) (Col 4, lines 27-42). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the on-board generator of Dillingham to be hydraulically driven as taught by Birtchet, since Birtchet teaches how an on-board generator can be powered by an existing oil supply from the paver via the motor in column 4, lines 27-42, thereby making use the supply of oil already on hand as part of the paving machine.

Dillingham fails to disclose alternate powering by an external power source.

Kleiger teaches auxiliary means in the form of electrical heating elements inserted into opposing ends of a heating tube for coupling with external powers such as a 110 V AC source (Col 2, lines 15-18). It would also have been obvious to one having ordinary skill in the art at the time the invention was made to modify the heating element of Dillingham to alternately have an external power source as taught by Kleiger, since an external power source serves as a back-up source of power in the event the on-board generator fails.

Regarding claim 15, Dillingham discloses that heater (59) is an electric immersion heater in column 4, lines 8-9.

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Regarding claims 16 and 17, Dillingham fails to disclose the maintaining the aggregate materials within the hopper between 250-350 degrees or 275-300 degrees Fahrenheit. But Dillingham does disclose that commercially available temperature gages (82, 84 in Fig. 7) are used to constantly monitor the temperature of the heat chamber and mixer chamber (Col 4, lines 12-15). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the temperature of the mixing chamber in Dillingham to be maintained between 250-350 or 275-300 degrees Fahrenheit, since Dillingham discloses in column 4, lines 12-15 that commercially available temperature gages are used to constantly monitor the temperature of the heat chamber and mixer chamber, and furthermore, asphalt is heated to a desired temperature based on the application, materials, etc.

Dillingham (US 6,012,870), Birtchet (Re 36,981), and Kleiger (US 5,419,654) as applied to claim 13 above, and further in view of Dillingham (US 5,988,935).

Dillingham '870 fails to disclose two heating elements. Dillingham '870 just discloses the one heating element (59). Dillingham '935 teaches two electric heating elements (25, 27) seen in Fig. 3 as disposed within an air jacket proximate the hopper above. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the single electric heating element of Dillingham '870 to comprise two electric heating elements disposed within an air jacket as taught by Dillingham '935, since Dillingham '935 states in column 6 lines 24-33 that the hopper compartment can

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be heated more economically with a dry radiant heat source, and thereby having two such heat sources improves the efficiency and economy of the heating process.

Response to Arguments

7. Applicant's arguments filed 9/26/05 have been fully considered but are not consider persuasive. Applicant has amended claim 1 to recite that the repair system is "flameless" in the preamble, and added that the limitation of "the hopper having no flame-based heat source associated therewith". Similarly, applicant has amended claim 13 to add "flameless" to the preamble and recite "without a flame-based heat source". Method claim 18 has added "having no flame-based heat source". The Examiner notes in the claim rejection above that Dillingham '870 discloses both burner fired retort tubes and an electric immersion heater. Dillingham '870 specifically addresses in the Specification (Col 4, lines 15-19) that the either both the retort tubes and the electric heater can be used or one or the other. Therefore, Dillingham provides the support for being able to solely use the electric heater, and the Examiner makes an obviousness rejection wherein one would just use the electric heater as opposed to both types of heating elements since Dillingham provides the necessary support for being able to use either one alone.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexandra Pechhold whose telephone number is (571) 272-6994. The examiner can normally be reached on Mon-Thurs. from 8:00am to 5:30pm and alternating Fridays from 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will, can be reached or (571) 272-6998. The fax phone number for this Group is (703) 872-9306.

/ Thomas B. Will

Supervisory Patent Examiner

Group 3600

AKP 12/1/05